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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/896,695	06/28/2001	Liew Chuang Chiu	3918P017	9069
8791 7	590 06/20/2003			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			EXAMINER	
LOS ANGELE	IRE BOULEVARD, SE S, CA 90025	VENTH FLOOR	LIN, TINA M	
			ART UNIT	PAPER NUMBER
			2874	
			DATE MAILED: 06/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)			
Office Action Summary		09/896,695	CHIU ET AL.			
		Examiner	Art Unit			
		Tina M Lin	2874			
Period fo	The MAILING DATE of this communication a r Reply	ppears on the cover sheet with t				
THE N - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR (SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perioe to reply within the set or extended period for reply will, by statusply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	l. 1.136(a). In no event, however, may a reply be be within the statutory minimum of thirty (30 d will apply and will expire SIX (6) MONTHS the cause the application to become ABAND	to e timely filed) days will be considered timely. from the mailing date of this communication. ONED (35.LISC 8.133)			
1)🖂	Responsive to communication(s) filed on 22	? May 2003 .				
2a) <u></u> □	This action is FINAL . 2b) \boxtimes 7	his action is non-final.				
3)□ Dispositio	Since this application is in condition for allow closed in accordance with the practice unde on of Claims	wance except for formal matters or <i>Ex parte Quayl</i> e, 1935 C.D. 1	s, prosecution as to the merits is 1, 453 O.G. 213.			
4)⊠	Claim(s) <u>1-26 and 40-49</u> is/are pending in th	e application.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.					
6)□	6) Claim(s) is/are rejected.					
7)	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/	or election requirement.				
Application	·					
	he specification is objected to by the Examin					
10) The drawing(s) filed on <u>28 June 2001</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)∏ T	he oath or declaration is objected to by the E					
	nder 35 U.S.C. §§ 119 and 120	Adminor.				
_	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. & 11	9(a) (d) or (f)			
	All b) Some * c) None of:	gripholity under 55 5.5.5. § 11	3(a)-(d) 01 (t).			
, —	1. ☐ Certified copies of the priority documer	its have been received				
	2. Certified copies of the priority documen		eation No			
	B. Copies of the certified copies of the price					
	application from the International B ee the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	-			
14)⊠ Ad	knowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 11	9(e) (to a provisional application).			
	☐ The translation of the foreign language pr cknowledgment is made of a claim for domes					
Attachment(s)					
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			
.S. Patent and Tra PTO-326 (Rev.		action Summary	Part of Paper No. 14			

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DETAILED ACTION

Applicant's election without traverse of claims 1-26 and 40-49 in Paper No. 13 is acknowledged. Claims 27-39 have been cancelled.

The information disclosure statements filed 19 September 2002 (paper no. 8), 20 September 2002 (paper no. 9), 23 September 2002 (paper no. 10), and 24 September 2002 (paper no. 11) fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered. However, information disclosure statements filed 23 September 2002 (paper no. 5) and 16 December 2002 (paper no. 7) complies with 37 CFR 1.98(a)(2) and therefore has been considered.

New corrected drawings are required in this application because:

The drawings filed with this application on 14 January 2002, are objected to as being informal. Notice that all the labels on the figures are handwritten as well as the figure numbers. Correction is required in response to this office action. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-9, 11-22, 24-25, and 40-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,901,263 to Gaio et al. and further in view of U.S. Patent 6,364,709 B1 to Jones. In regards to claims 1, 2, 6, 7, 9, 13, 14, 19-22, and 40-47, Gaio et al. discloses a fiber optic module comprising of a latch to disengage and withdraw an optical module by sliding the module on an incline plane. Gaio et al. also discloses a tab that helps to determine which module in the assembly is to be removed and assists in the removal of the module. Gaio further discloses electro-optic transducers to convert optical signals to electrical ones and electrical signals into optical ones. Furthermore, the latch disclosed by Gaio et al. can be engaged and disengaged by pushing the latch from the lock or unlock position. Additionally, Gaio et al. discloses that the latch can be made of a metal or a polymeric material. (Column 3) But Gaio et al. fails to specifically disclose the optical fiber module to be withdrawn from a cage assembly and that the module is a SFP cage assembly. However, Jones discloses a SFP cage assembly to be connected to an optical module with the ability to convert optical signals to electrical signals, electrical signals to optical signals and with the ability to disengage the optical module. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art for the optical module to be withdrawn from a cage assembly and

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to use a SFP cage assembly. Gaio et al. also fails to disclose the pull-tab to include a shield to contain the EM radiation. However, Jones discloses that the cage to function as an EM shield for protection. (Column 1) Therefore, it would have been obvious at the time the invention was made to a person with ordinary skill in the art to have had a pull tab with a shield to contain EM radiation for protection.

In regards to claims 3, 4, 11, 15, 16, and 17, Gaio et al. discloses a pull mechanism but Gaio et al. and Jones fail to specifically disclose a push button or a kick actuator as the push actuator. However, since applicant has claimed two different types of push actuators, it is a non-critical feature of the invention. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have used any desirable and optimal push actuator. Furthermore, Gaio et al. and Jones fails to specifically disclose where the pull tab and push actuator is located. However, since Applicant discloses more than one possible location for the push actuator and the pull-tab to be located, it is a non-critical feature of the invention. Additionally, the top and bottom of a fiber optic module is a relative term that can be defined in numerous ways depending on the orientation of the device. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have placed the pull tab and push actuator in a desirable location.

In regards to claim 8, Gaio et al. and Jones also fail to disclose two actuators. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have a second actuator for disengaging and withdrawing each optical module.

Furthermore, both of the actuators are to perform the same purpose of disengaging the optical fibers. Moreover, it has been held that mere duplication of essential working parts of a device

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involves only routine skill in the art. *St. Regis Paper Co. vs. Bemis Co.*, 193 USPQ 8. Gaio et al. and Jones also fail to disclose indicator marks on the module, which the actuator releases from. However, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have placed indicator marks in order to aid the technician to indicated if the optical module was released or not.

In regards to claims 12, 18, 24 and 25, Gaio et al. and Jones to disclose a nose having a grip to pull out the module, a pull grip having dimples to prevent slippage and a handle on the pull tab to grip it with one or more fingers. However, having a nose with a grip on the fiber module, a pull grip having dimples or a handle are all components to aid in the more careful removal of the fiber optic module. Especially when handling PCB boards and other sensitive electronic devices, it would be obvious at the time the invention was made to a person having ordinary skill in the art to have included the features, a nose with a grip or a pull grip with a handle or dimples, for the aid in careful removal of sensitive components.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,901,263 to Gaio et al. in view of U.S. Patent 6,364,709 B1 to Jones, in regards to claim 1 and in further view of U.S. Patent 6,335,869 B1 to Branch et al. Gaio et al. and Jones disclose all discussed above, but fail to disclose grooves to slidable engage the fiber optic module. However, Branch et al. does disclose a removable transceiver module with grooves (40) in the cage assembly for the module to slide into. Therefore, if there are grooves in the cage assembly, there must be grooves in the pull actuator as well in order for the grooves to lock into place. (Figure 2) Therefore, it would have been obvious at the time the invention was made to a person having

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ordinary skill in the art to have grooves in the pull actuator for the purpose or engaging a fiber optic module or withdraw a fiber optical module.

Claims 48 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,901,263 to Gaio et al. in view of U.S. Patent 6,364,709 B1 to Jones, and in further view of U.S. Patent Application 2002/0062719 A1 to Friedman et al. Gaio et al. discloses inserting a fiber optic module into a holder assembly and pushing the module into the assembly. But Gaio et al. fails to disclose a cage assembly and a push button extending fully out to ensure the module is fully inserted. However, Jones discloses a SFP cage assembly to be connected to an optical module with the ability to convert optical signals to electrical signals, electrical signals to optical signals and with the ability to disengage the optical module. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art for the optical module to be withdrawn from a cage assembly and to use a SFP cage assembly. Furthermore, the concept of a push button extending fully out to ensure the module is fully inserted is a commonly known method. Friedman et al. discusses the insertion of one member into another member. A button protrudes outward when the first member has been connected to the second member. When the first member has not yet been connected, there is no button present and therefore nothing protrudes outwardly. Additionally, in order to fully insert the member, the member would have to be pushed fully into the other member. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have used a push button extending fully out to ensure the module is fully inserted.

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Allowable Subject Matter

Claims 10, 23 and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record fails to disclose or reasonably suggest a push actuator with a push tab, shaft coupled to the push tab and hook coupled to the shaft. The prior art of record fails to disclose or reasonably suggest a pull-tab with an arm coupled to the fiber module and a handle at the end of pull-tab. Lastly, the prior art of record fails to disclose a pull table with a pull grip, a lever arm coupled to the pull grip and a shield coupled to the lever arm and grounded.

Documents submitted by applicant in paper no. 6 and 7 in the Information Disclosure Statement have been considered and made of record. Note attached copy of form PTO-1449. None of the documents submitted by applicant discloses or reasonably suggests the contents of the allowable subject matter discussed above.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References D-F discuss other mechanical connections and latches that comprise a two-part assembly cage.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tina M Lin whose telephone number is (703) 305-1959. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (703) 308-4819. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

TML 7W/ June 12, 2003 AKM ENAYET ULLAH BRIMARY EXAMINER